

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An image forming apparatus having a latent carrier, a charging device configured to charge a surface of the latent carrier, an exposure device configured to expose a surface of the latent carrier for forming a latent image, and a transfer device provided to transfer a developed toner image on the latent carrier to a recording medium, comprising:

a developing device, ~~the developing~~ having a developer carrier, the developer carrier configured to replenish the developer to the latent carrier;

a pooling portion, ~~the pooling portion~~ configured to pool a two-component developer, the two-component developer including:

an agitating device, the agitating device configured to agitate the two-component developer in the pool portion; and

a first measurement device and a second measurement device configured to measure [[a]] first and second developer characteristic characteristics having first and second values, respectively, the first characteristic being different from the second characteristic,

wherein the first and second measurement devices compare ~~their respective outputs~~ the first and second characteristics to measure determine a deterioration rate of the two-component developer.

Claim 2 (Original): The image forming apparatus of Claim 1, wherein the first measurement device is a developer reflection intensity sensor.

Claim 3 (Original): The image forming apparatus of Claim 1, wherein the second measurement device is a developer magnetic permeability sensor.

Claim 4 (Currently Amended): The image forming apparatus of Claim 1, wherein the second measurement device measures ~~a load driven by~~ a torque of the agitating device.

Claim 5 (Original): The image forming apparatus of Claim 1, wherein the second measurement device measures an electric resistance of the developer.

Claim 6 (Currently Amended): The image forming apparatus of Claim 1, wherein an image forming condition is configured to be changed according to a ~~measured~~ determined deterioration rate of developer.

Claim 7 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is a charging bias value of the charging device.

Claim 8 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is an exposure power of the exposure device.

Claim 9 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is a developing bias value of the developing device.

Claim 10 (Original): The image forming apparatus of Claim 6, wherein the image forming condition is a rotating speed of the developer carrier.

Claim 11 (Currently Amended): The image forming apparatus of Claim 6, wherein the image forming ~~conditions are~~ condition is configured to change to negate an affection of deteriorated developer.

Claim 12 (Currently Amended): The image forming apparatus of Claim 1, wherein the developer in the developing device is configured to replace the developer according to a ~~measured~~ the determined deterioration rate of the developer.

Claim 13 (Original): The image forming apparatus of Claim 12, further comprising:
a toner replenishing device, the toner replenishing device configured to provide new toner to the developing device responsive to toner consumption.

Claim 14 (Original): The image forming apparatus of Claim 12, further comprising:
a new developer replenishing device, the new developer replenishing device configured to provide the new developer to the developing device, wherein the new developer is proportioned with a magnetic carrier and non-magnetic toner properly;

a discharging device, the discharging device configured to discharge a deteriorated developer;

wherein the new developer replenishing device is configured to provide the new developer to the developing device after discharging the deteriorated developer by the discharging device.

Claim 15 (Currently Amended): The image forming apparatus of Claim 1, further comprising:

a notice device, the notice device configured to notify the need to replace the developer in the developing device according to a measured the determined deterioration rate of the developer.

Claim 16 (Original): The image forming apparatus of Claim 15, wherein the notice device is configured to show a notice on an operator panel.

Claim 17 (Original): The image forming apparatus of Claim 15, wherein the notice device is configured to transmit information to a control center via a communication line.